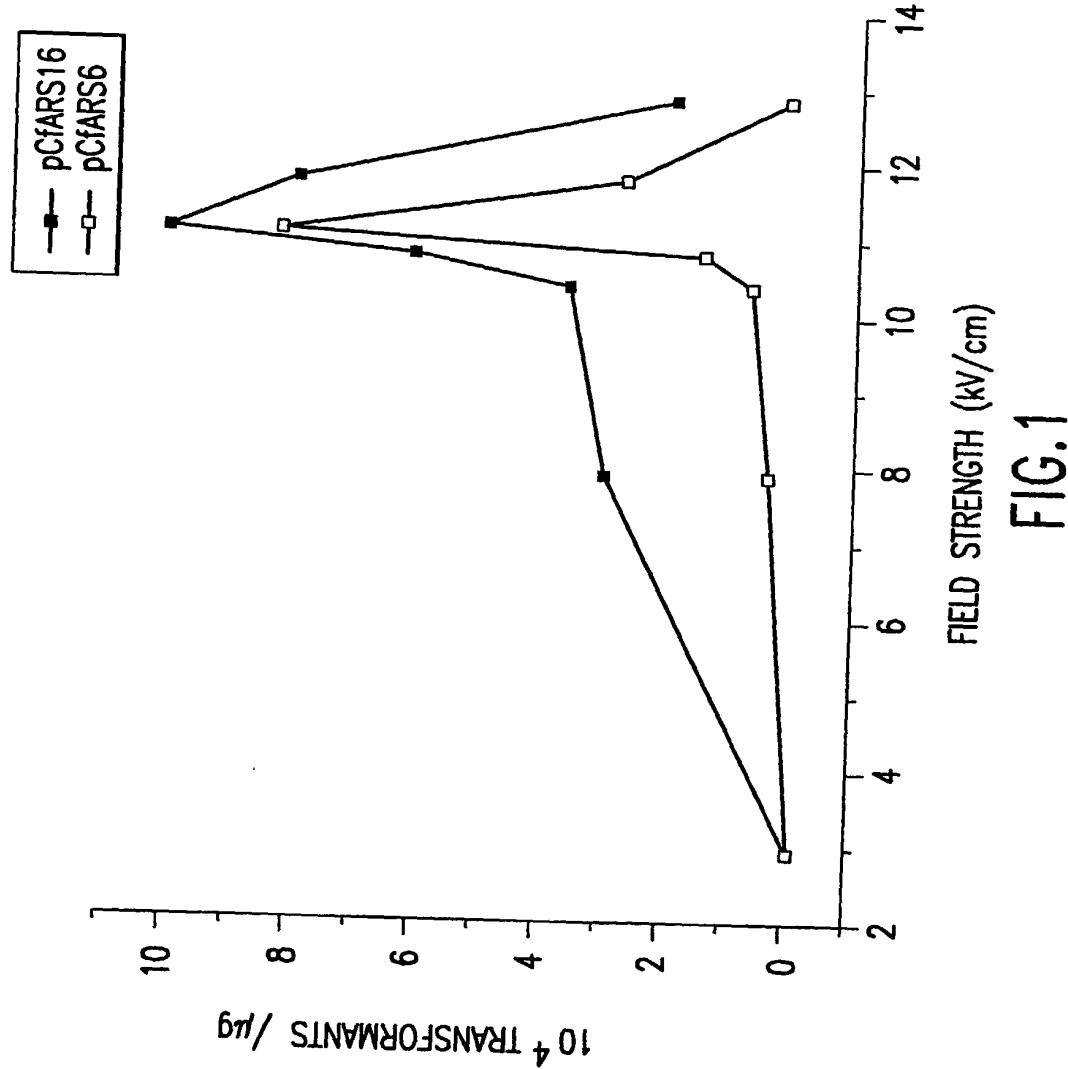


Appl. No. 09/903,508, Filed: July 13, 2001
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Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast



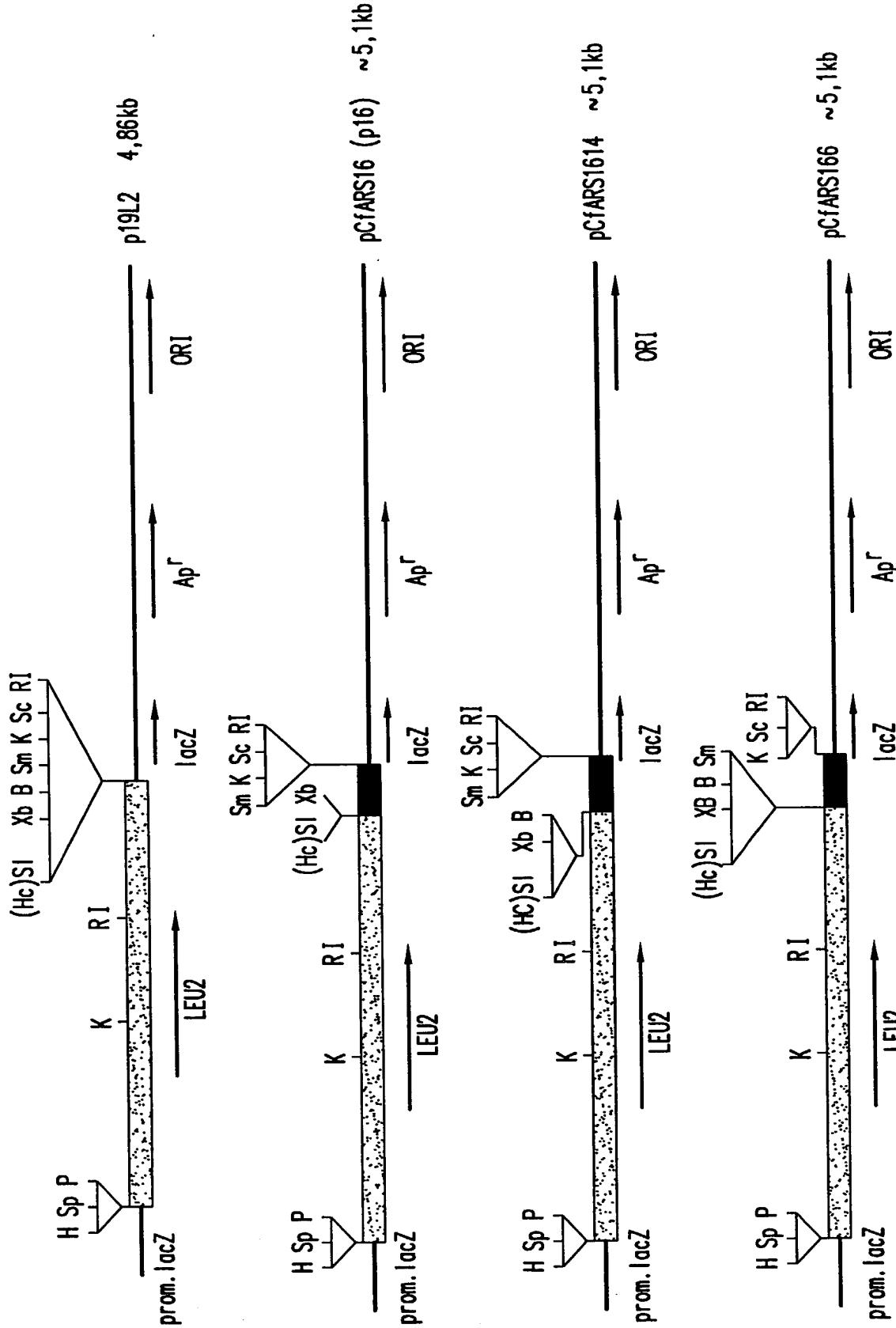
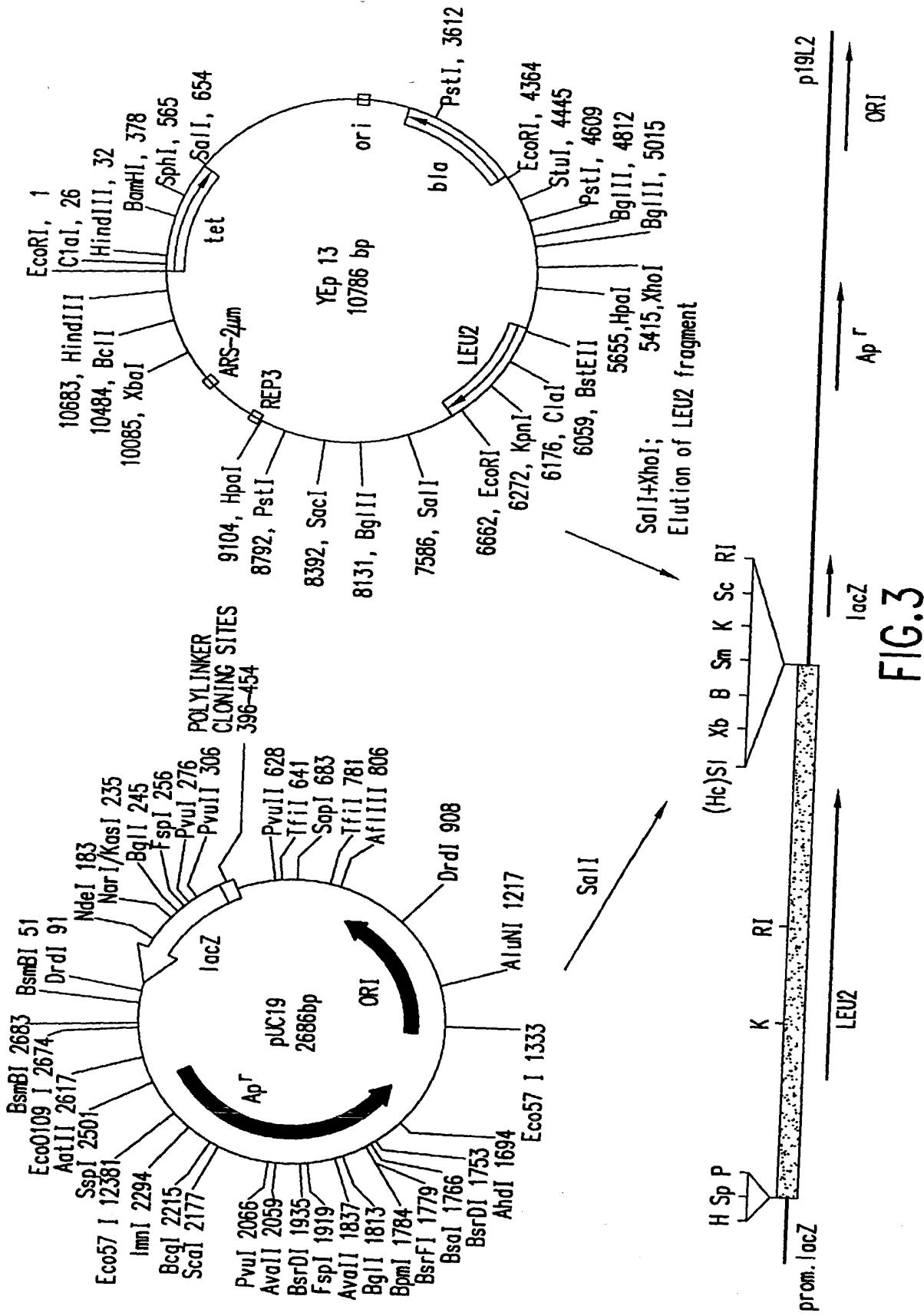


FIG. 2



Appl. No. 09/903,508; Filed: July 13, 2001
Dkt No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

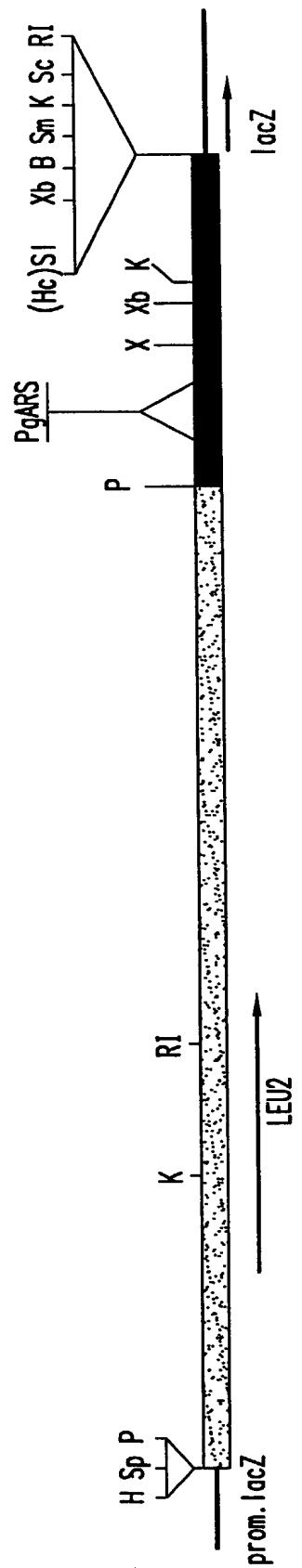


FIG. 4

Appl. No. 09/03,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavimogenic Yeast

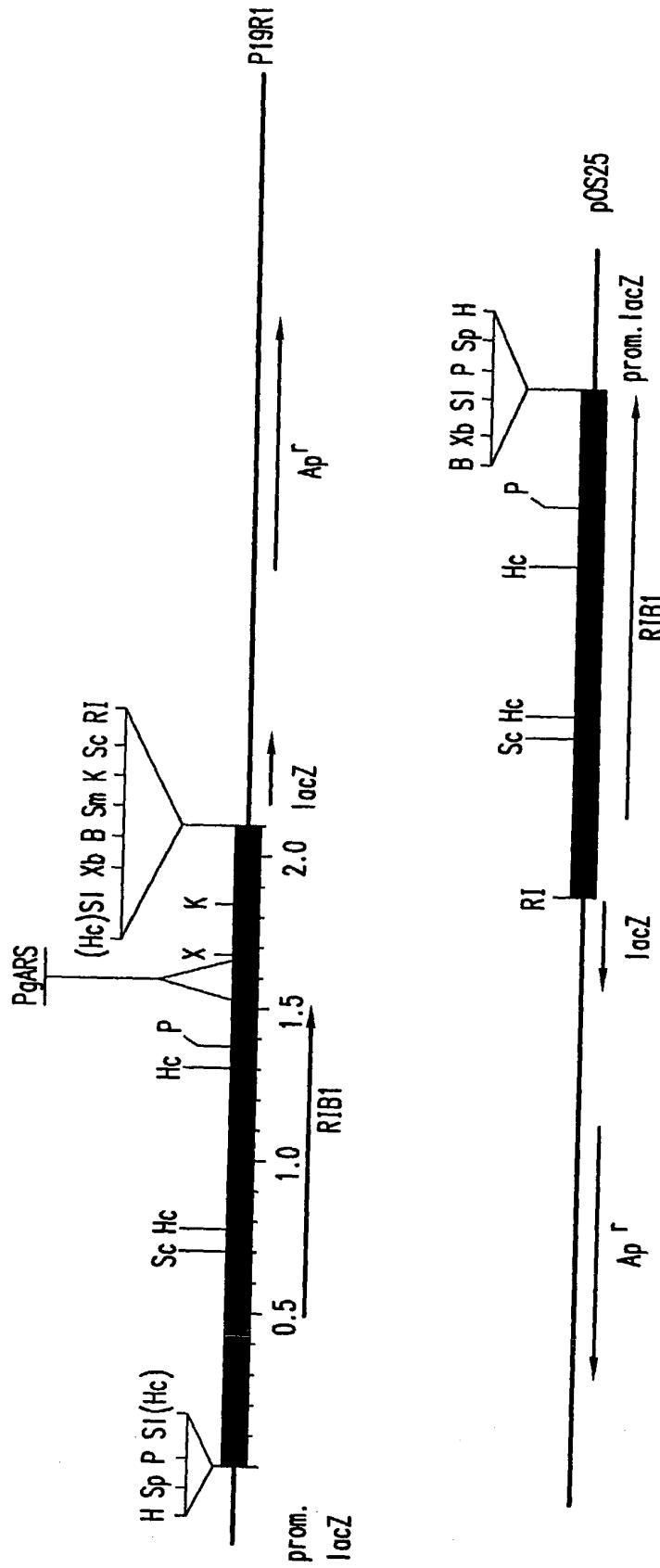


FIG. 5

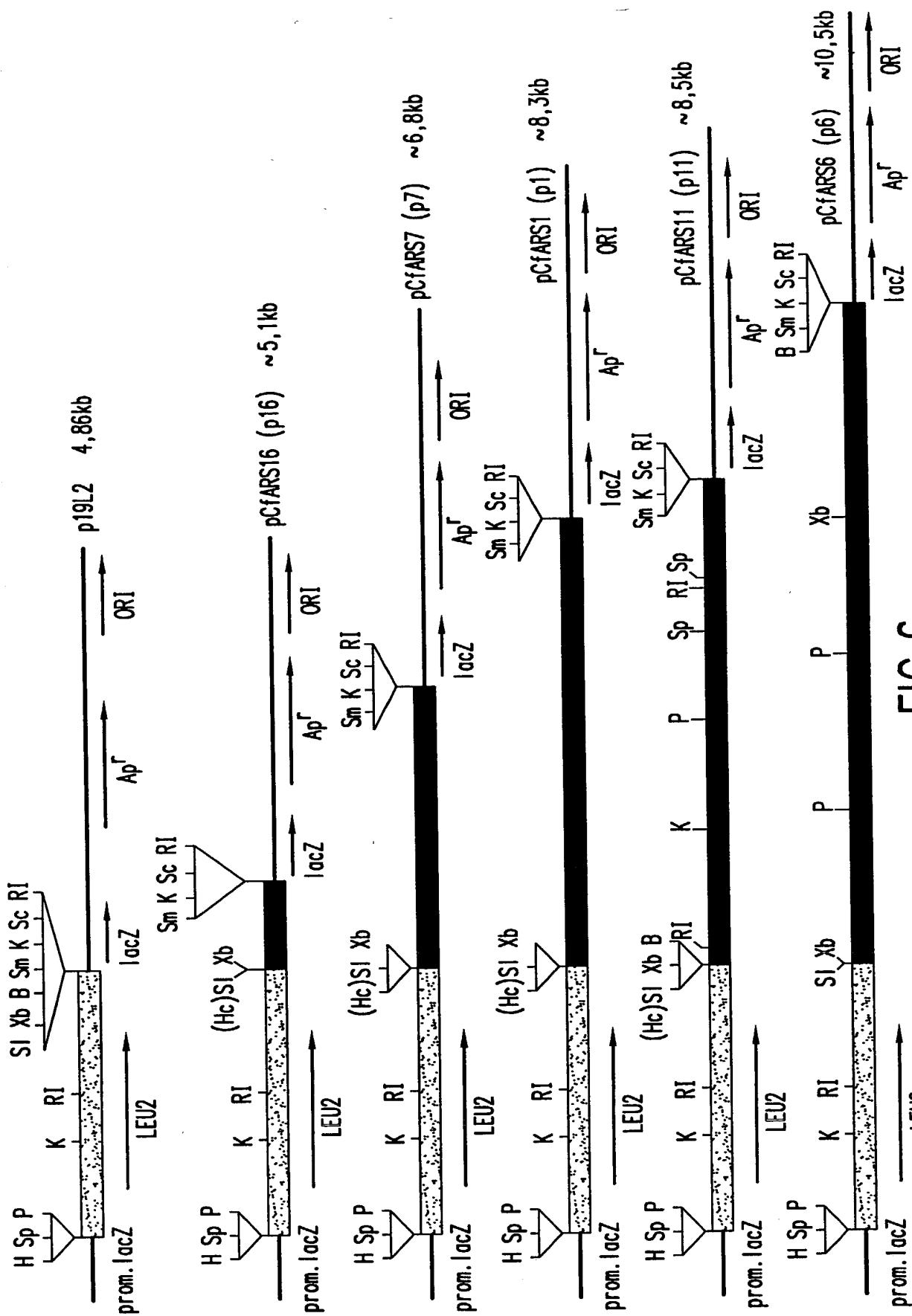


FIG. 6

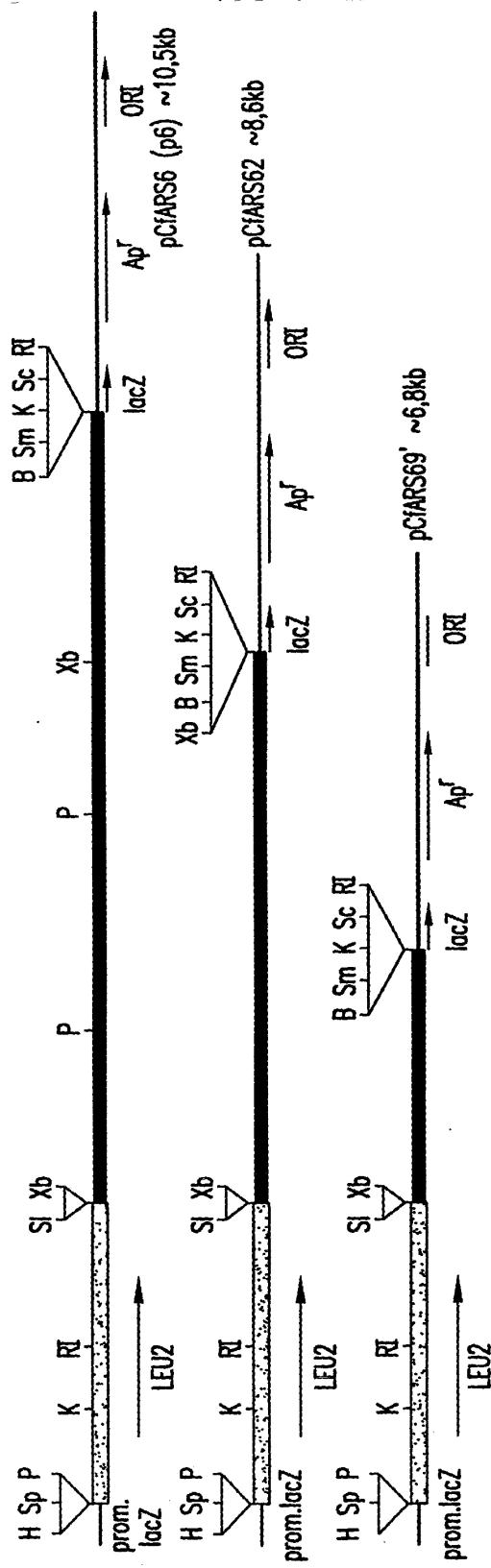


FIG. 7

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2680
Title: Transformation Systems for Flavinogenic Yeast

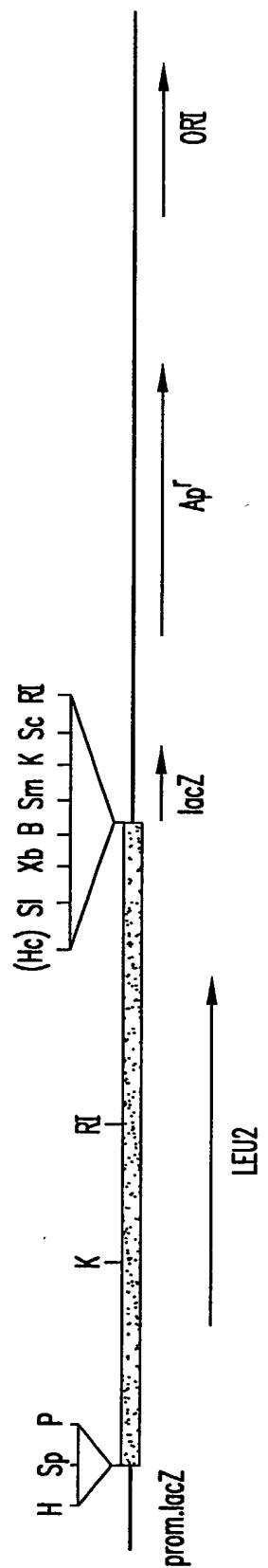
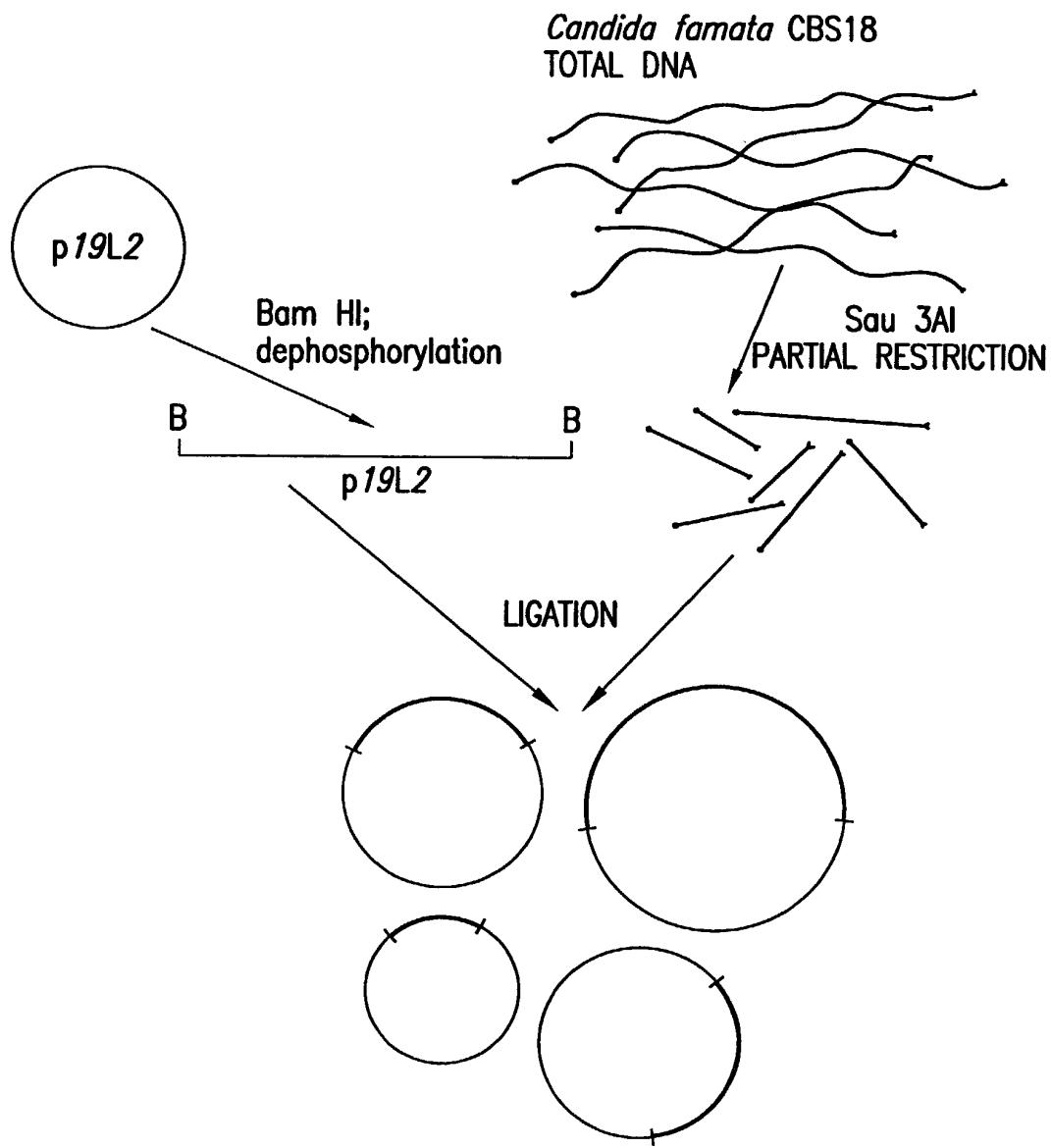


FIG. 8

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel. 202/371-2600
Title. Transformation Systems for Flavinogenic Yeast



Candida famata CBS18 GENOME LIBRARY
ON THE VECTOR p19L2

FIG. 9

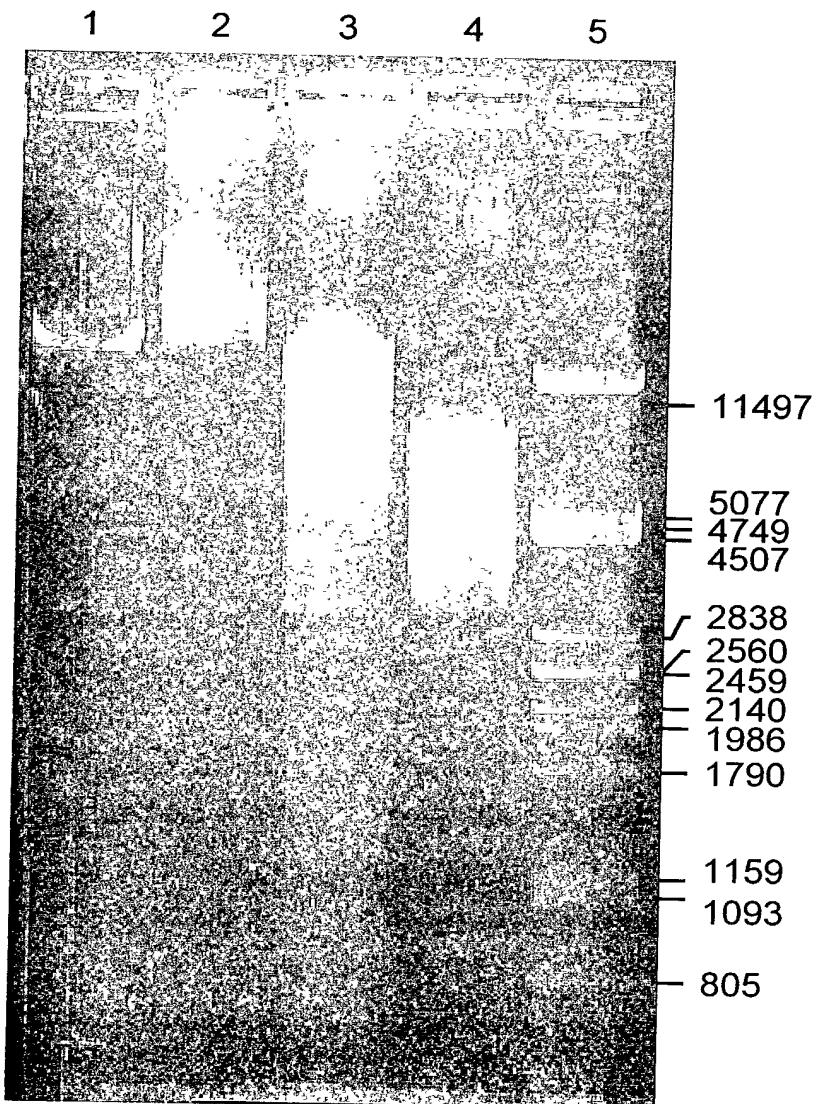


FIG.10

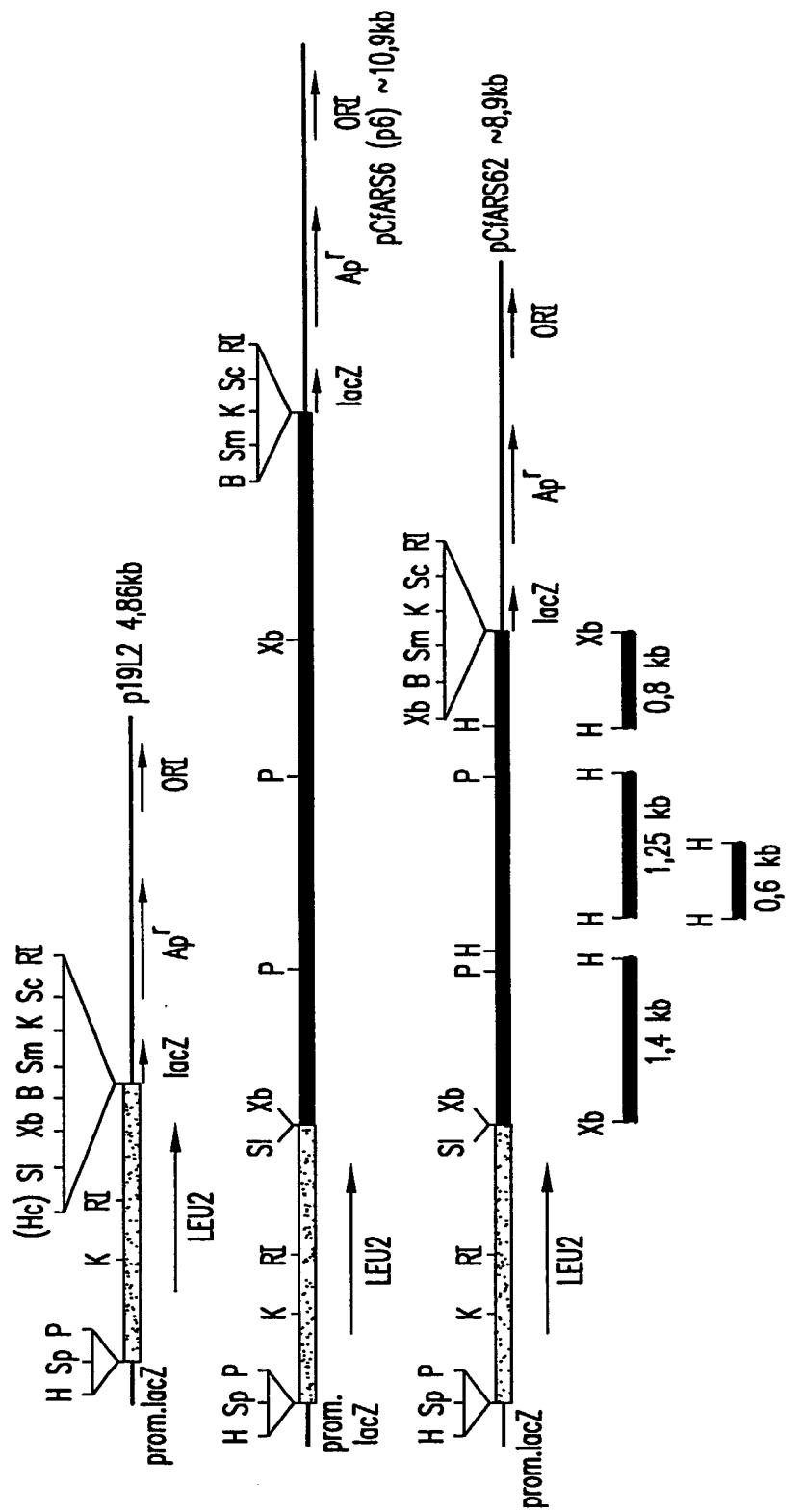


FIG. 1

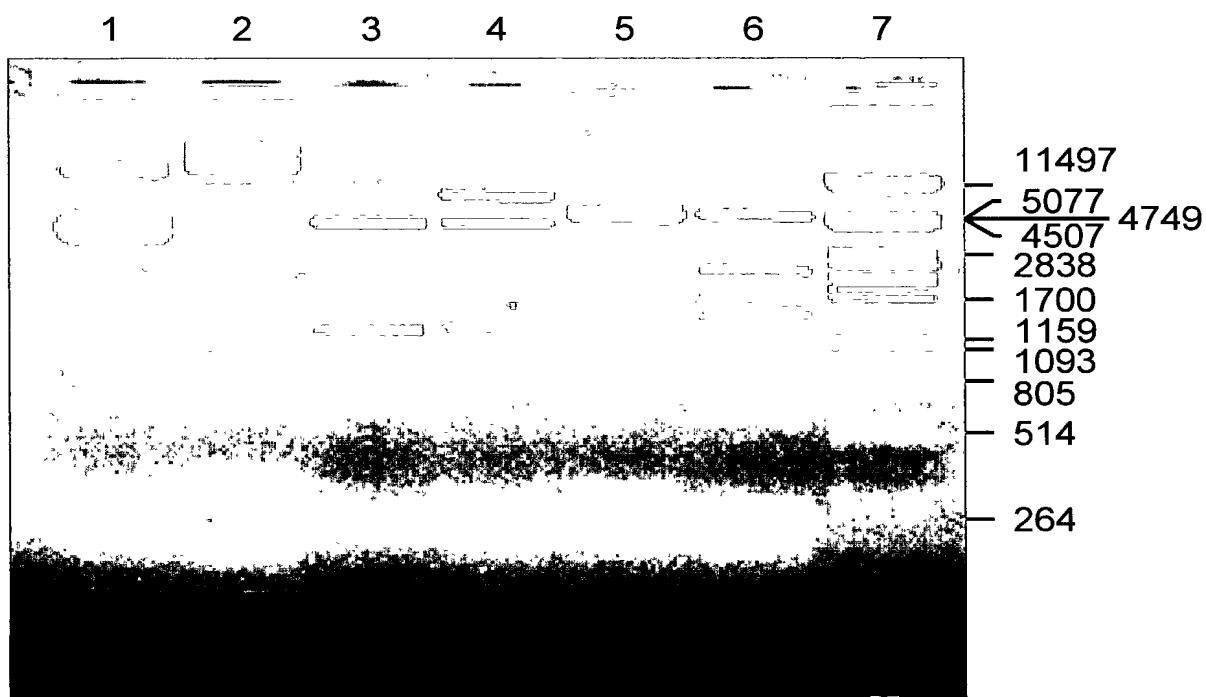


FIG. 12

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s). Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

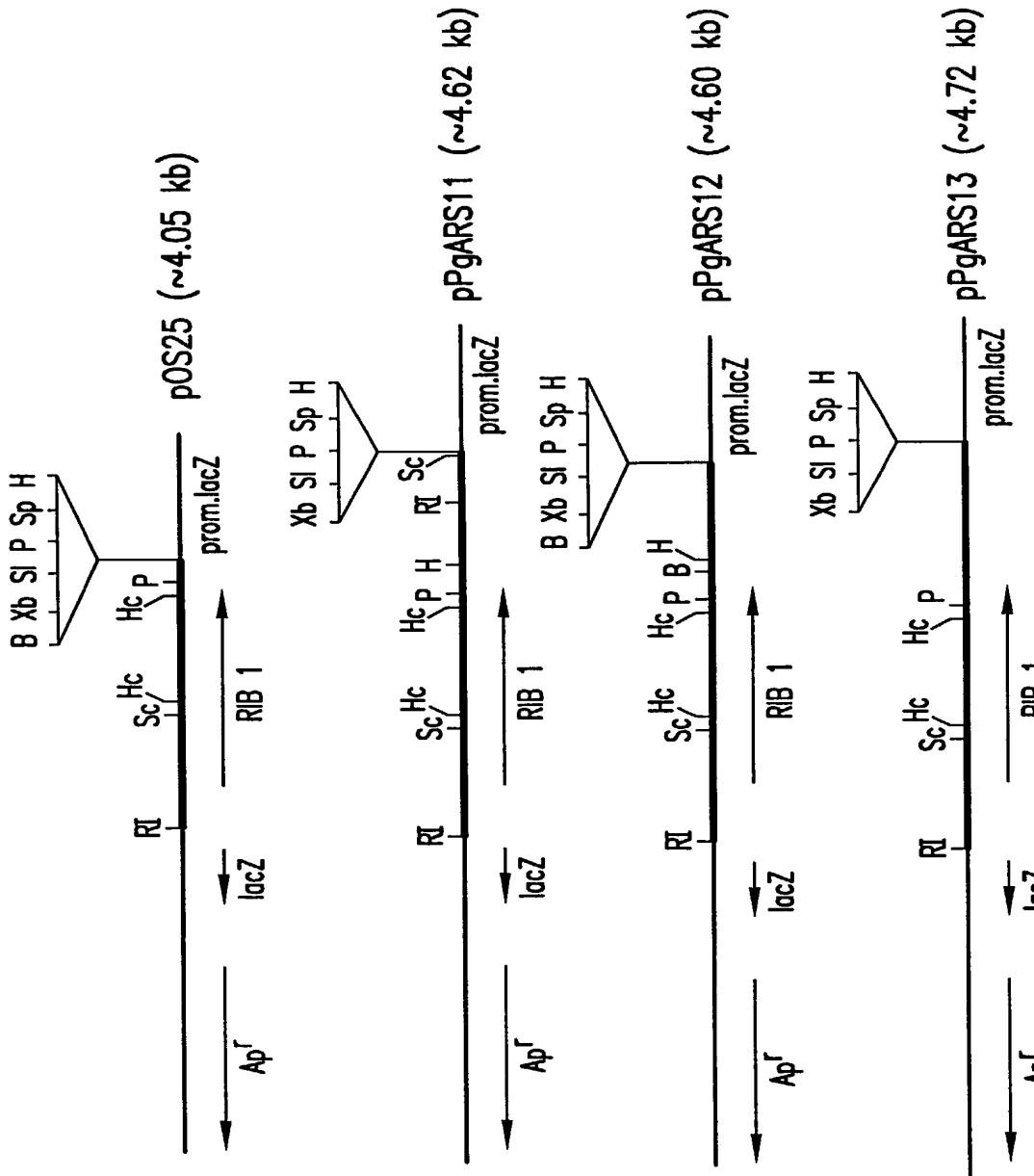


FIG. 13

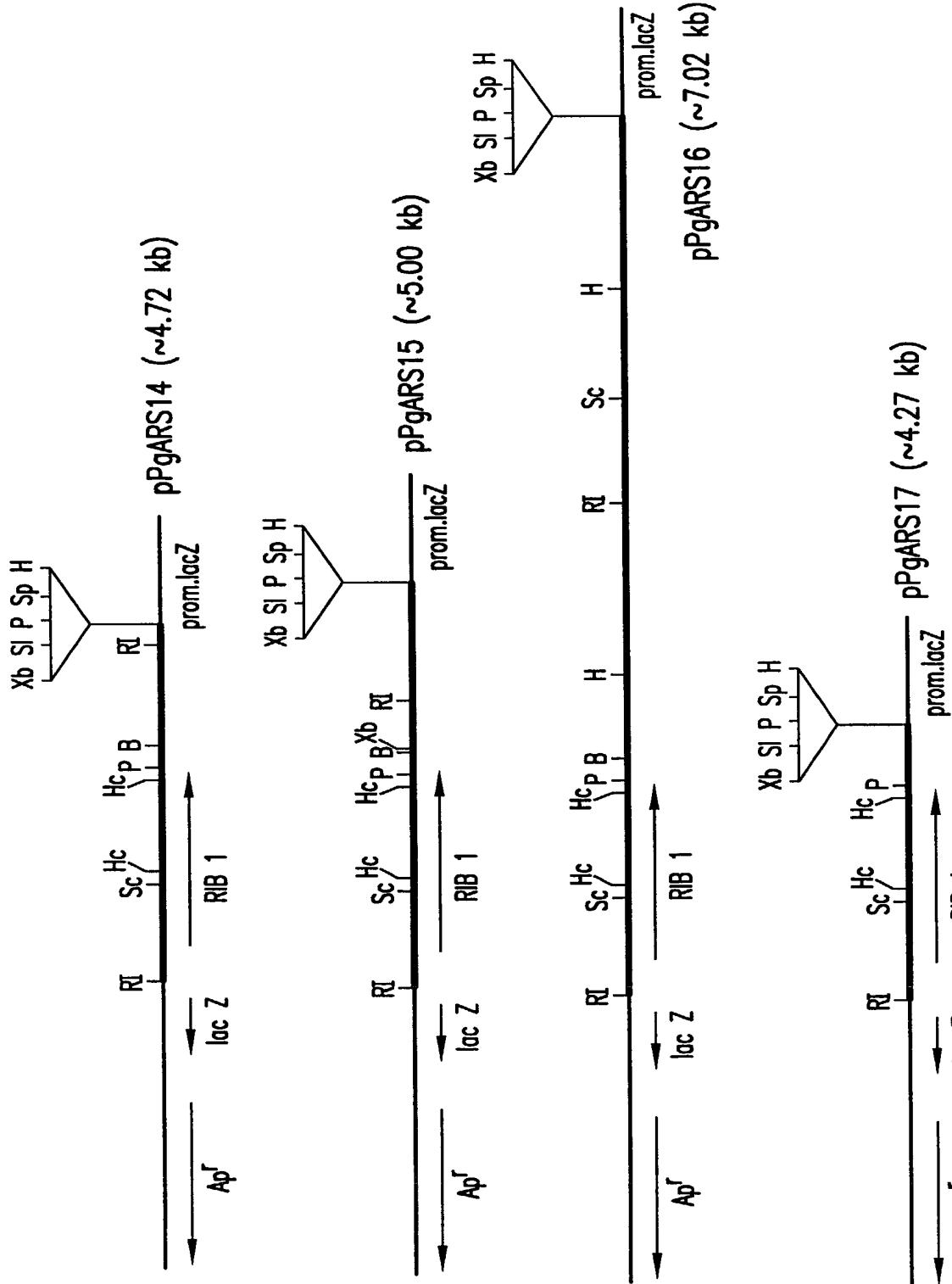


FIG. 14

<400> 1

cttgactgtat tacgaattcg agctcggtac ccggggatca tgaatgctag tcttttaca 60
 ctgaatattt ttttaacgt ttttaataa ttttgcatac attaagaaa aaccacaaat 120
 ggtttccaa aatttaaatt gattttttag aaagtcctaa aaaatagaat cataccaaat 180
 aaagaacaac taaaagtcac tatgacaaat tcagaaatac aatcgatga tccggttcatg 240
 gataaagctg caaagtcaca agcaaggcta actaagatcc tctagggga tcctctagag 300
 tcgactacgt cgttaaggcc gtttgcatac gagtaaaatt cttgagggaa ctttcaccat 360
 tatggaaat ggtcaagaa ggtattgact taaactccat caaatggtca ggtcattgag 420
 tgtttttat ttgttgtatt tttttttt tagagaaaat cctccaatataataaattttagg 480
 aatcatagtt tcatgattt tagagaaaat cctccaatataaattttagg aatcatagtt 540
 tcatgattt ctgttacacc taacttttg tgtggngccc tcctccttgc caatattaat 600
 ctgttacacc taacttttg tgtggngccc tcctccttgc caatattaat gttaaagtgc 660
 aattctttt ctttatcacg ttgagccatt agtatcaatt gttaaagtgc aattctttt 720
 ctttatcacg ttgagccatt agtatcaatt tgcttacctg tattccttta catcctcctt 780
 tttccttc ttgataaaatg tgcttacctg tattccttta catcctcctt tttccttc 840
 ttgataaaatg tatgttagatt gcgtatatacgt tttcgatctac cctatgaaca tattccattt 900
 tatgttagatt gcgtatatacgt tttcgatctac cctatgaaca tattccattt tgtaatttcg 960
 tgtcgnttctt attatgaatt tcattataa aggttatgtt tgtaatttcg ggcgtttcta 1020
 ttatgaattt cattataaaa gtttatgtcc aatatcataa aaaaagagaaa tcttttaag 1080
 caanggattt cttaaactcaa atatcataaa aaaagagaat ctttttaagc aaggattttt 1140
 cttaaactnt tcggggacgc atccccgctt cgnggactg gtggaccctt aaatctnttc 1200
 ggcgacagca tcccgaacttc ggngnactg tggaccctt aaatccagt ntgatcctgc 1260
 ttccaaanct ttactggtn ttcatggcc tacccagtt ctgaacctgc atccaaanct 1320
 ttactgctc ttcaagggtt tacctntca ggcaggtcaa tgacaattca catcntgcnc 1380
 anacnaaaaa nngctttca gcaggtcaan gcaatttcac atcntgcnc aaaananagt 1440
 ggcgatnggg tgacctntnt ttggcaacga tnggtgacc tatntttgca aac 1493

FIG.15

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Title: Transformation Systems for Flavinogenic Yeast

tatgcacatt cgcacgcccga ggtgcagcgt ttaggcgcgg ctcAACGGAA gccaacggcc 60
gccacaaaatt gtccggaaag tcgccgaaac tgatccactg gtaccacagc cccataagaa 120
ccccctttaa tattaaaaac cgttttcag ccactttga tcacattgtt tgcaGCCGCC 180
cgttgctgcc atccaaacac cacgcgtccc ccgcaccctt ttacggtgcc cactgcattg 240
gaatttgcattt aaaaacagcct cacgaagtgg attaattttt agagcactca agtcatcatg 300
ctgcaatctc tgcatcatga aatgactccc gttgatacag ggaactcaga ccgcaAGCGG 360
cgaagagtca caagagcgtg tgatgtgtgt cgactctaga ggatccccgg gtac 414

FIG. 16

Appl. No. 09/903,508; Filed. July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

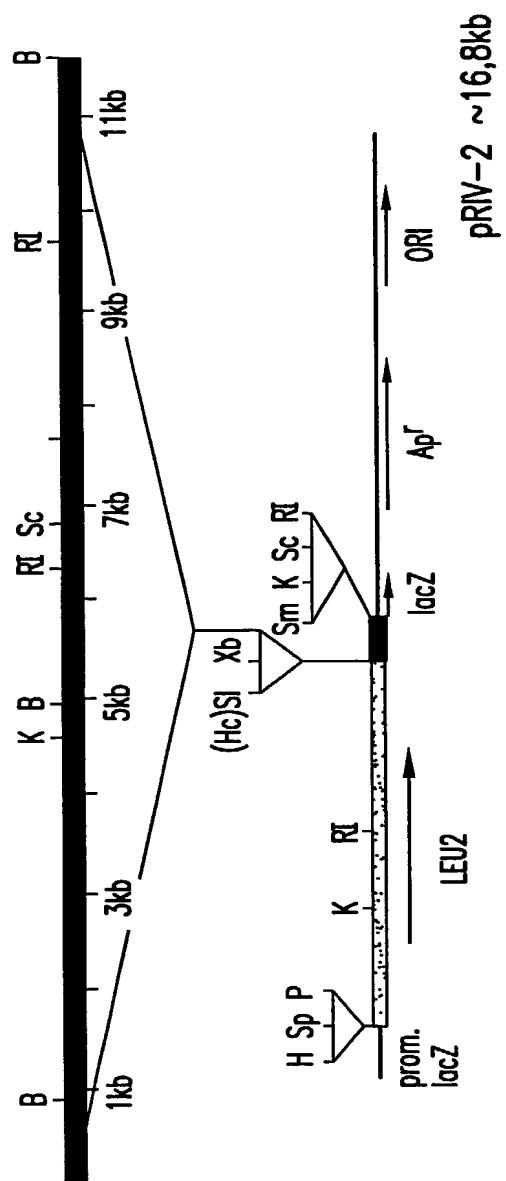


FIG. 17

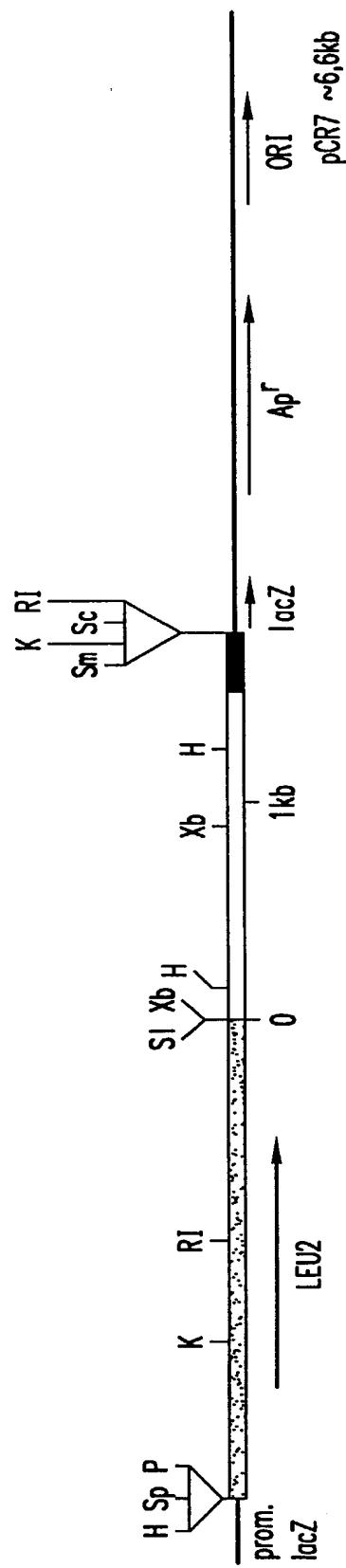


FIG. 18

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel. 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

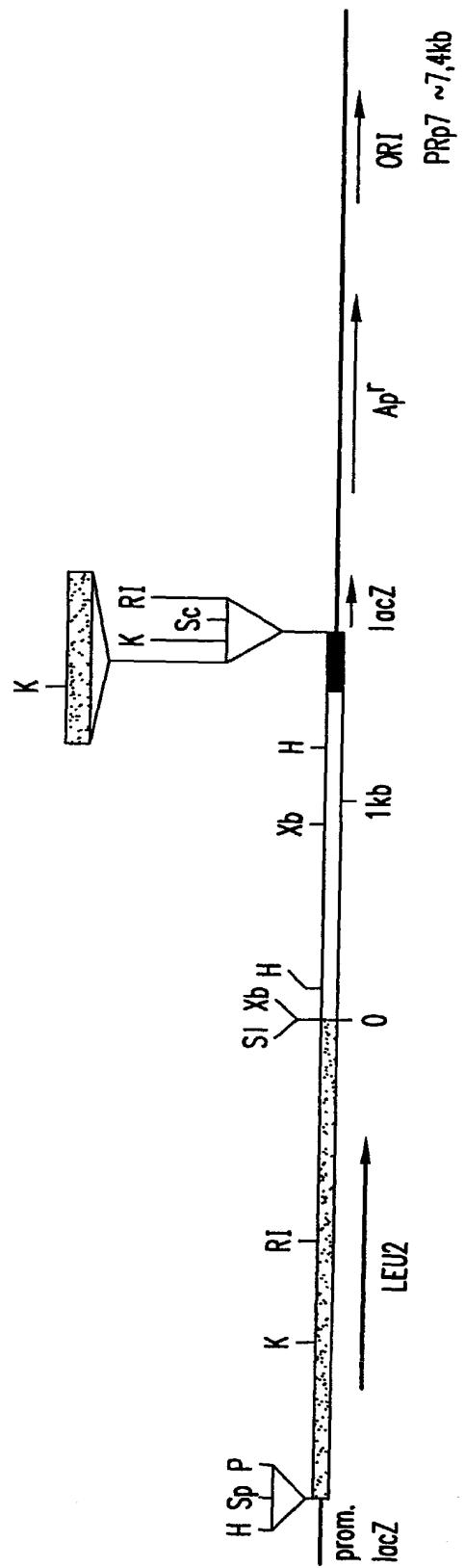


FIG. 19

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM, Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

tgattacgaa ttcgagctcg gtacccgggg atcatgaatg ctatgtttt tacactgaat 60
attttttaa cgattttta ataatttgc aatcatttaa gaaaaaccac aaatggttt 120
ccaaaattta aattgatttt ttagaaagtc ctaaaaaata gaatcataacc aaataaaagaa 180
caacttaaag tcactatgac aaattcagaa atacaatcgt atgatccgtt catggataaa 240
gctgcaaagt cacaaggcaag gctaactaag atcctctaga gtcgactacg tcgttaaggc 300
cgtttctgac agagtaaaat tcttgaggga actttcacca ttatggaaa tggttcaaga 360
aggtattgac ttaaactcca tcaaatggtc aggtcattga gtttttta tttgntgtat 420
ttttttttt ttagagaaaa tcctccaata tataaattag gaatcatagt ttcatgattt 480
tctgtta 487

FIG.20

Appl. No. 09/903,508, Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel. 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

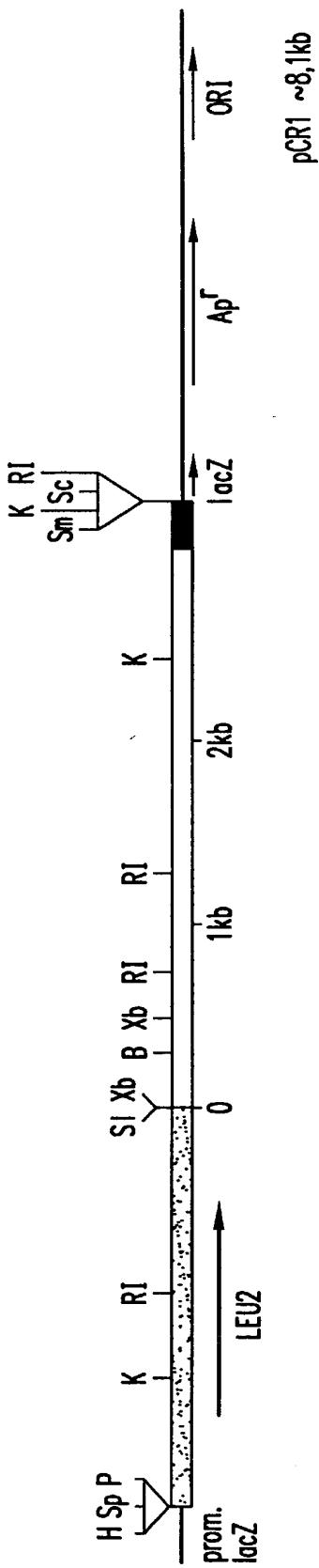


FIG. 21

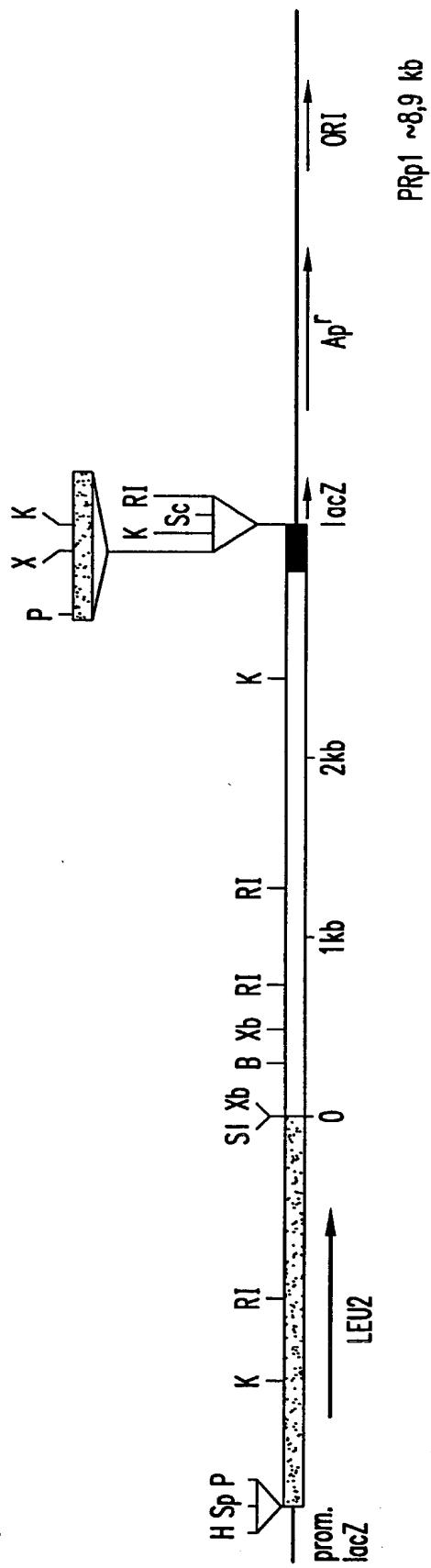


FIG. 22

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

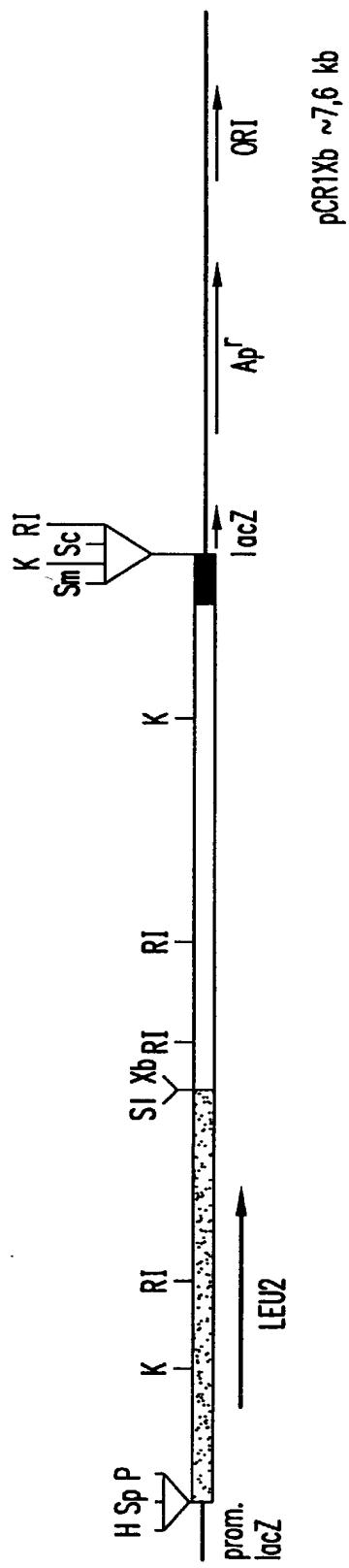


FIG. 23

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s): Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

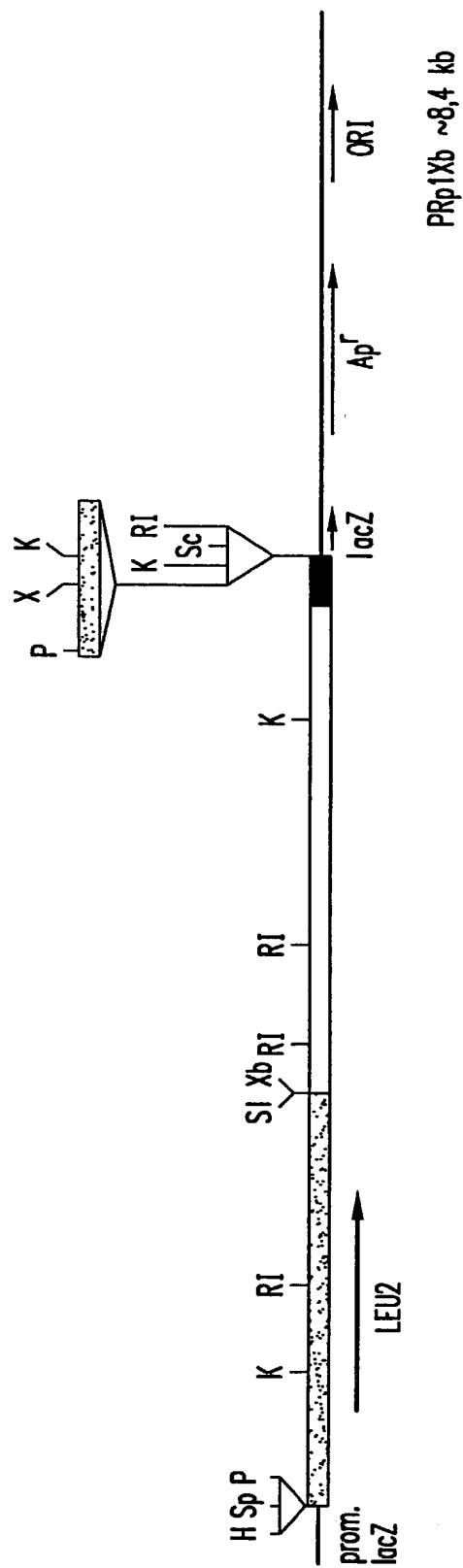


FIG. 24

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM, Group Art Unit: 1645
 Inventor(s): Abbas *et al.*, Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

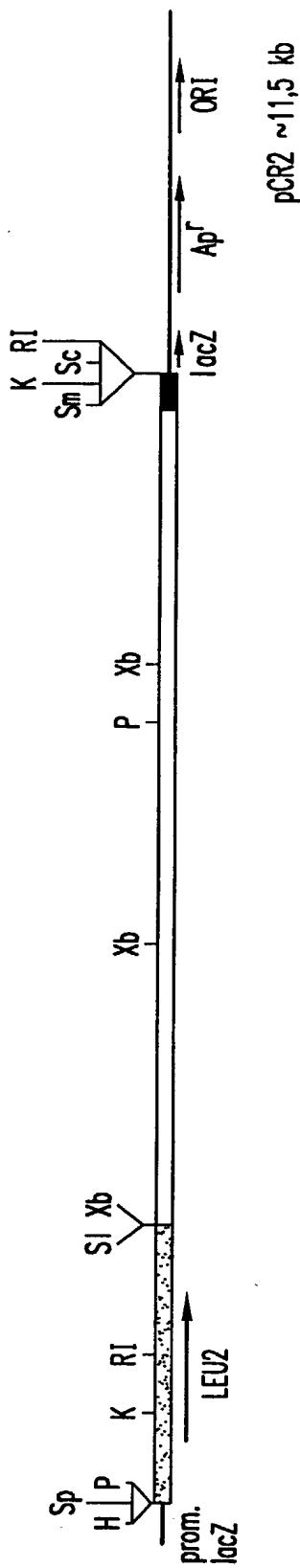


FIG. 25

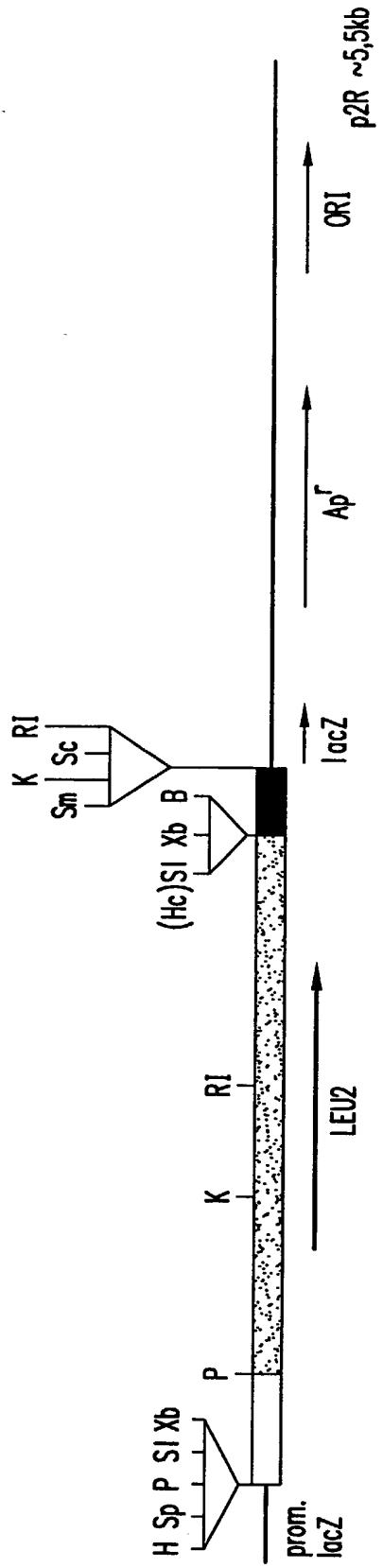


FIG.26

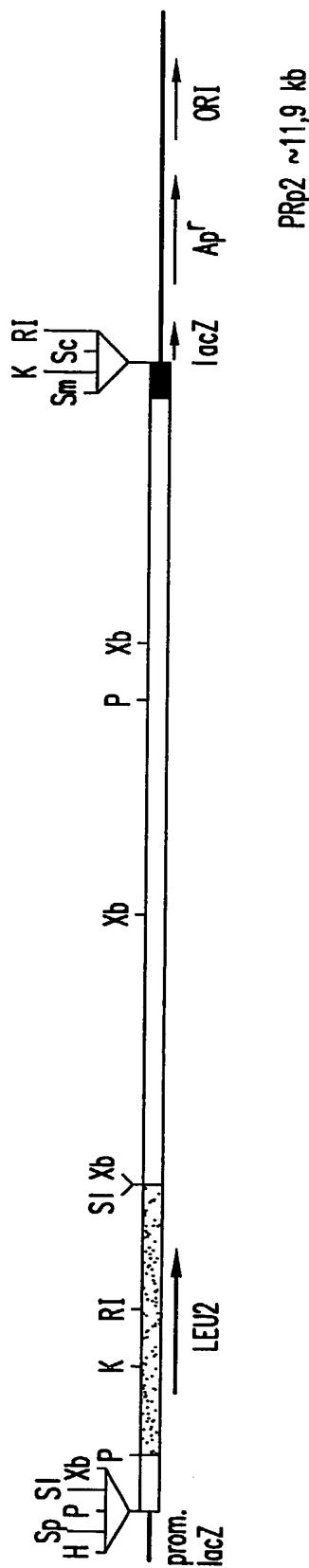


FIG. 27

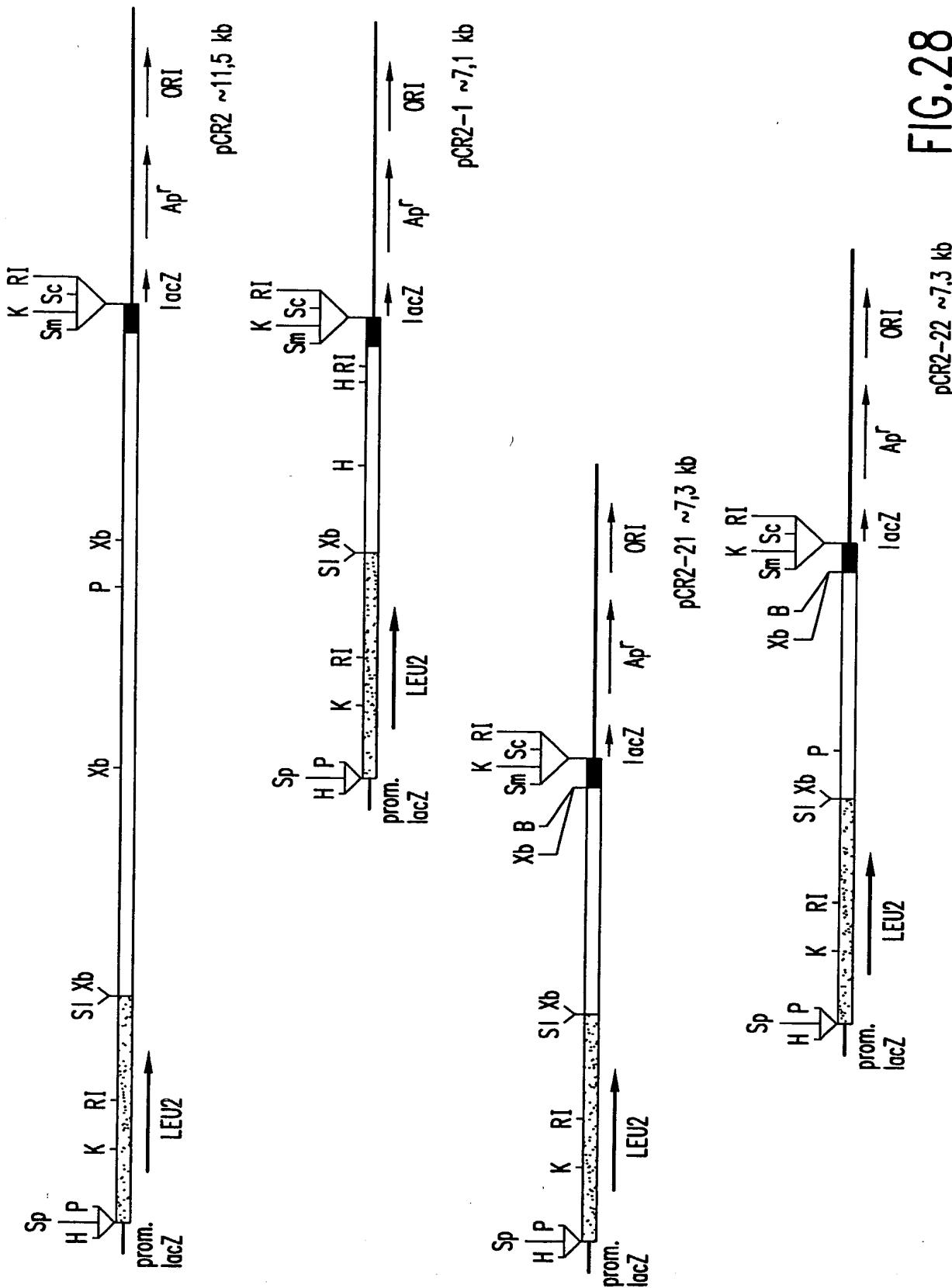


FIG.28

Appl. No. 09/903,508; Filed: July 13, 2001
Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
Inventor(s) Abbas *et al.*; Tel: 202/371-2600
Title: Transformation Systems for Flavinogenic Yeast

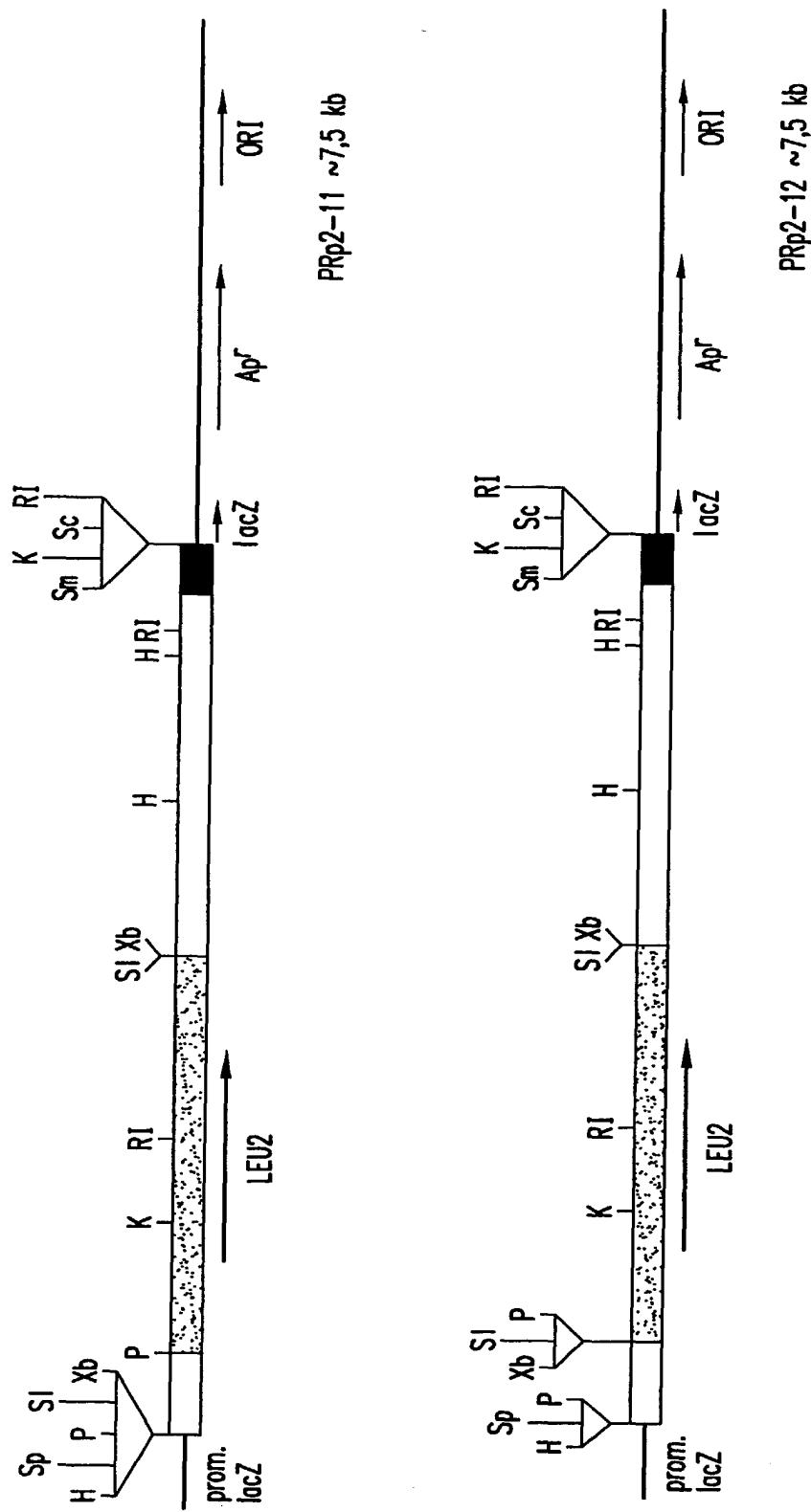


FIG. 29

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
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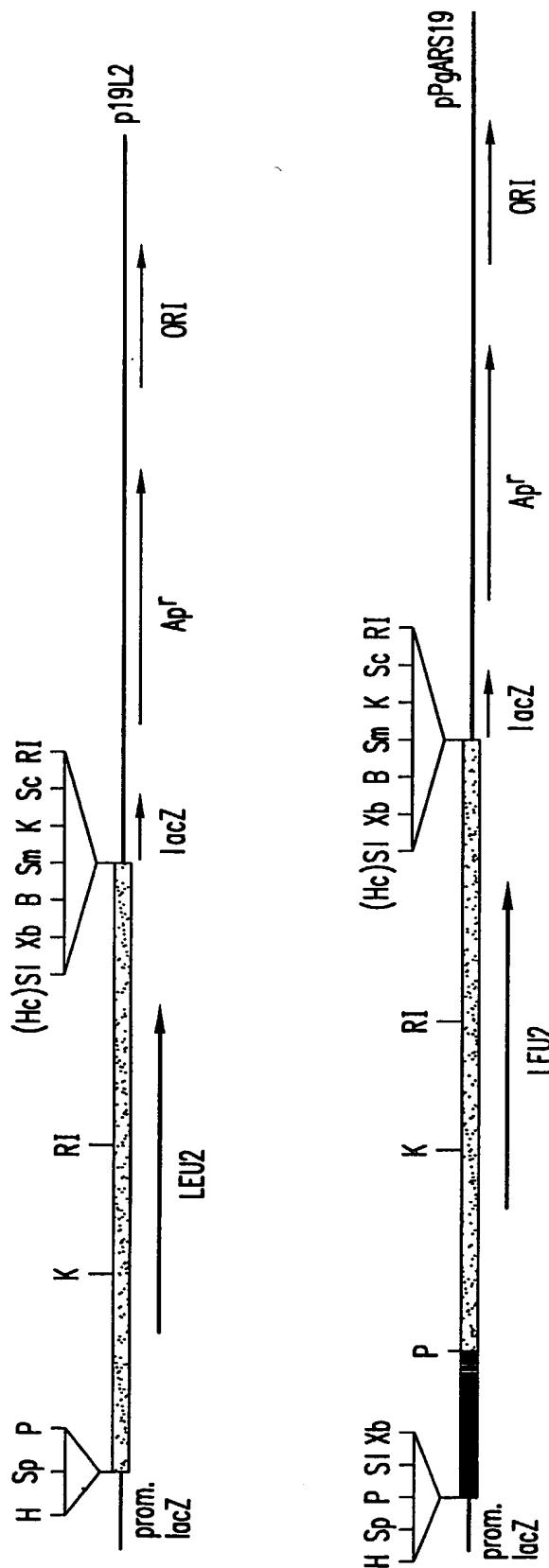


FIG. 30

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 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
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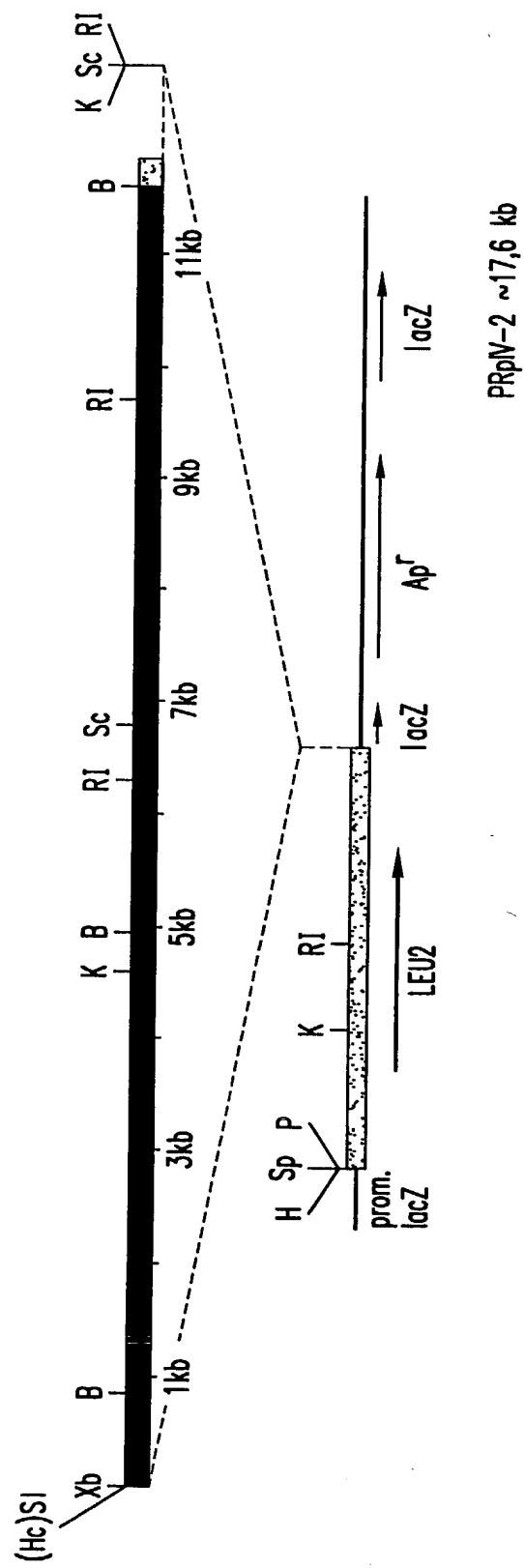


FIG. 31

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

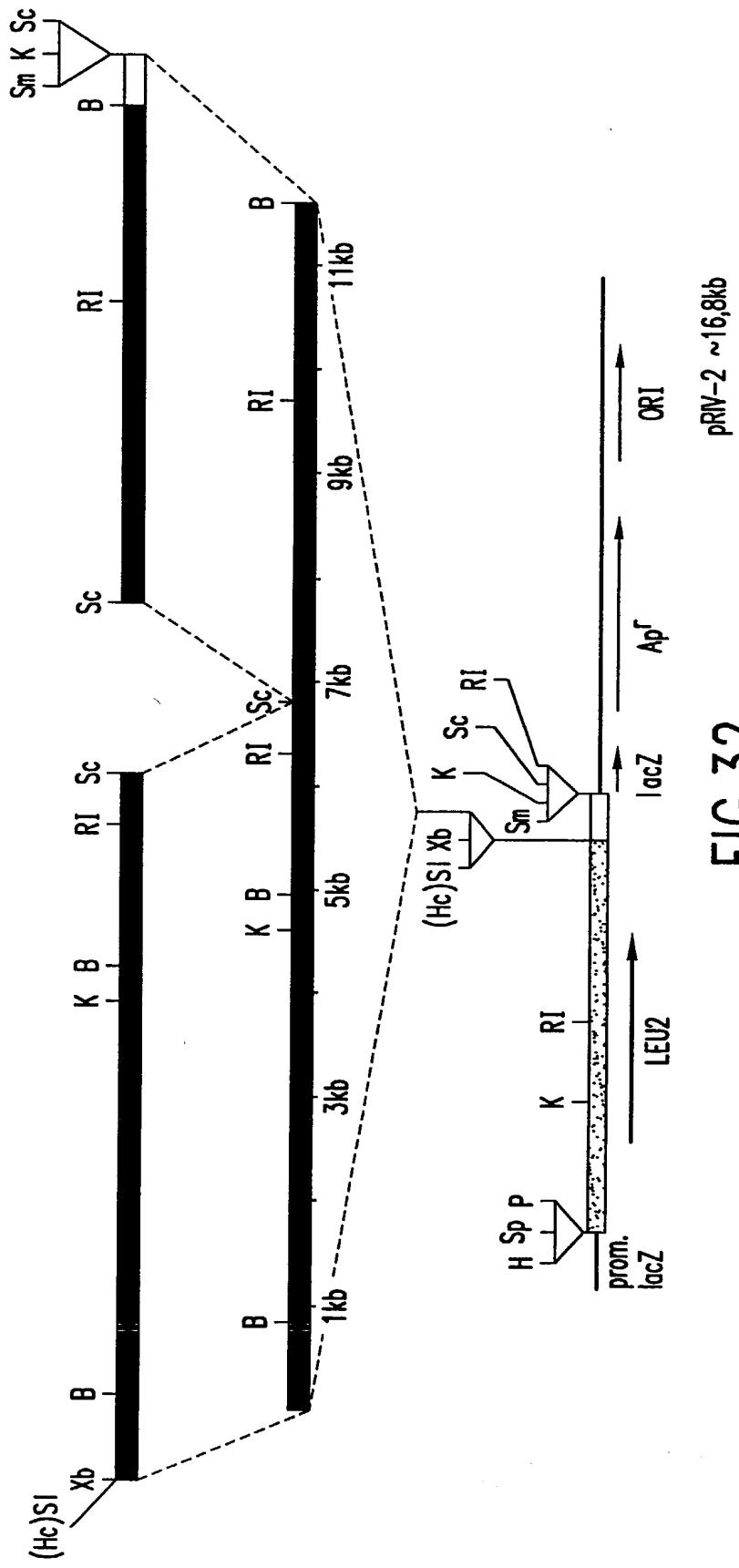


FIG. 32

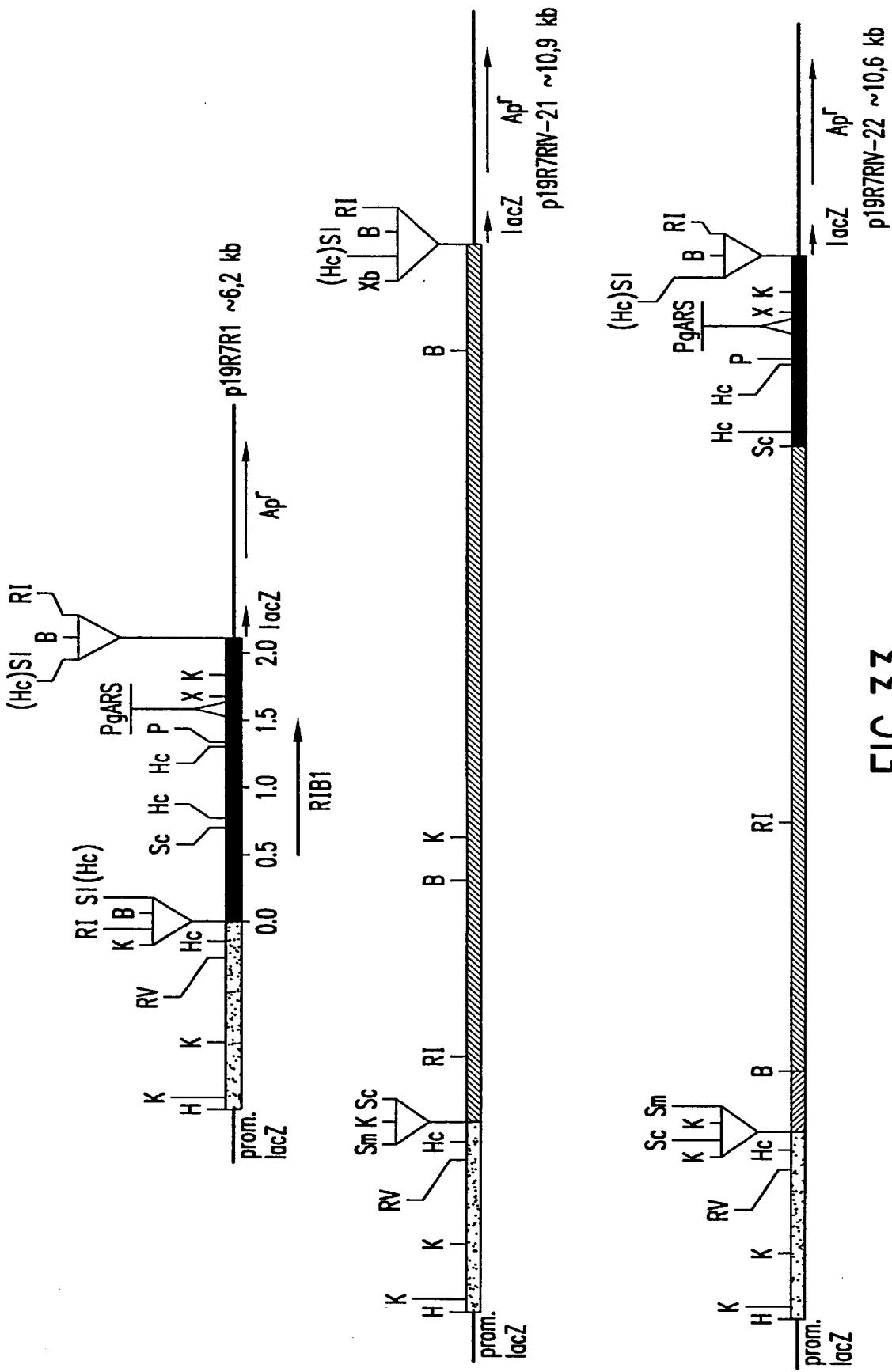


FIG. 33

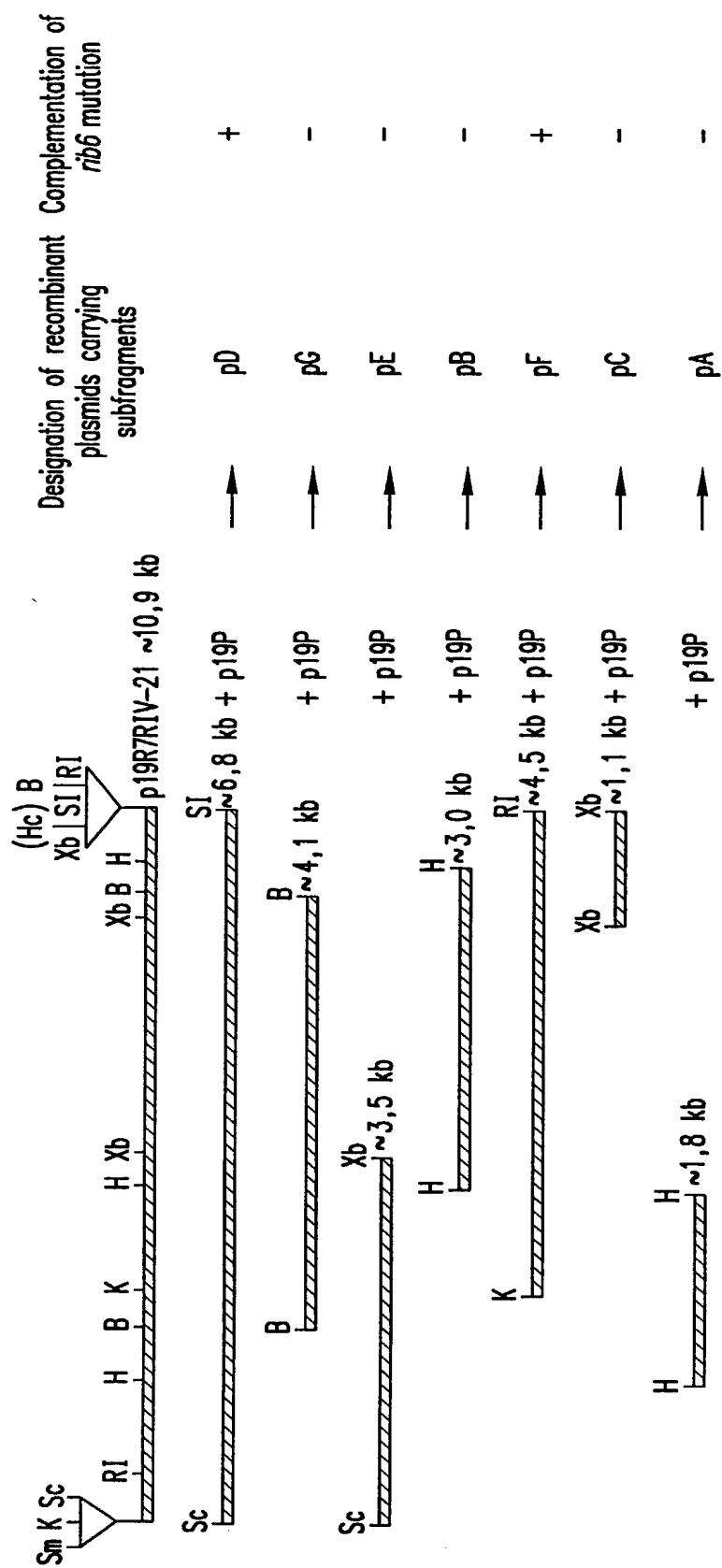


FIG. 34

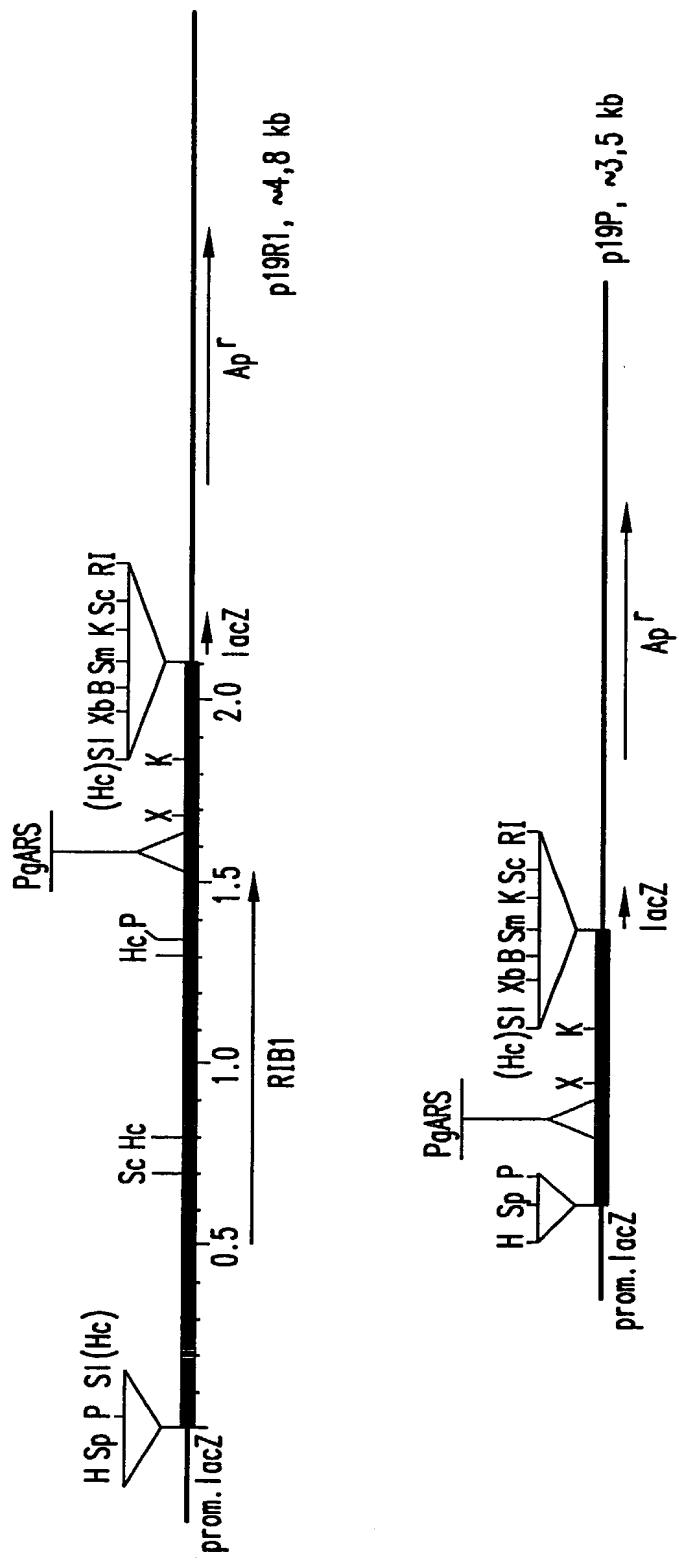


FIG. 35

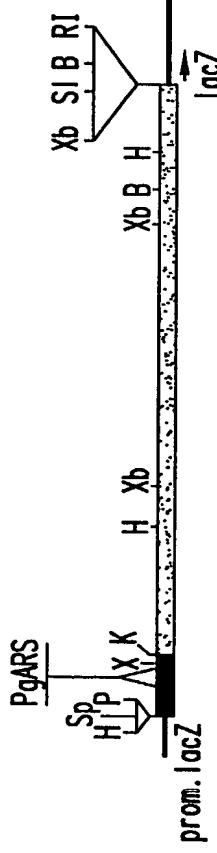


FIG. 36

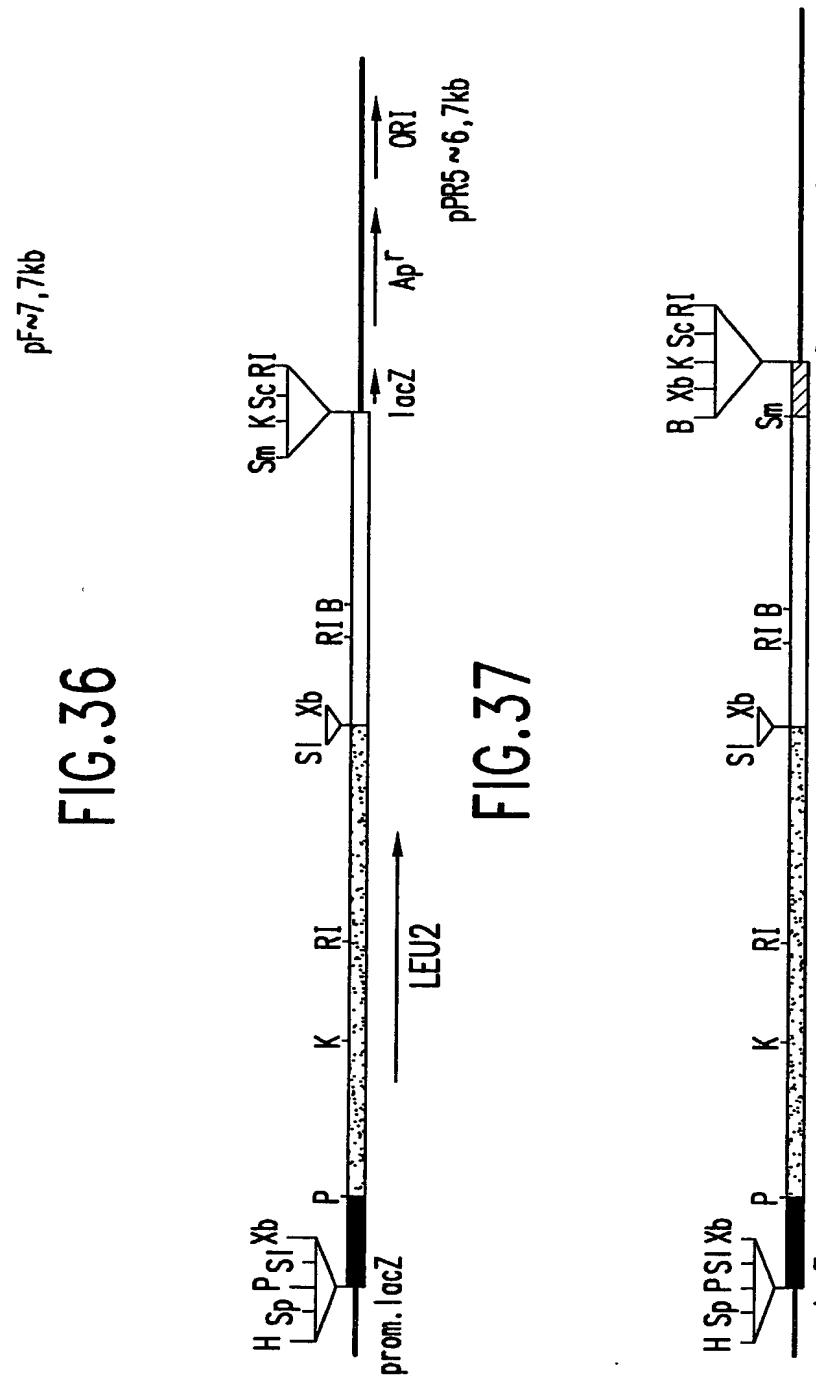


FIG. 37

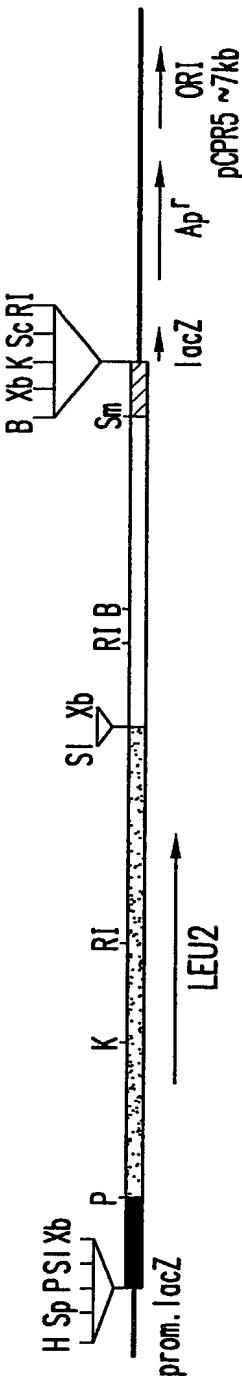


FIG. 38

Appl. No. 09/903,508, Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM, Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

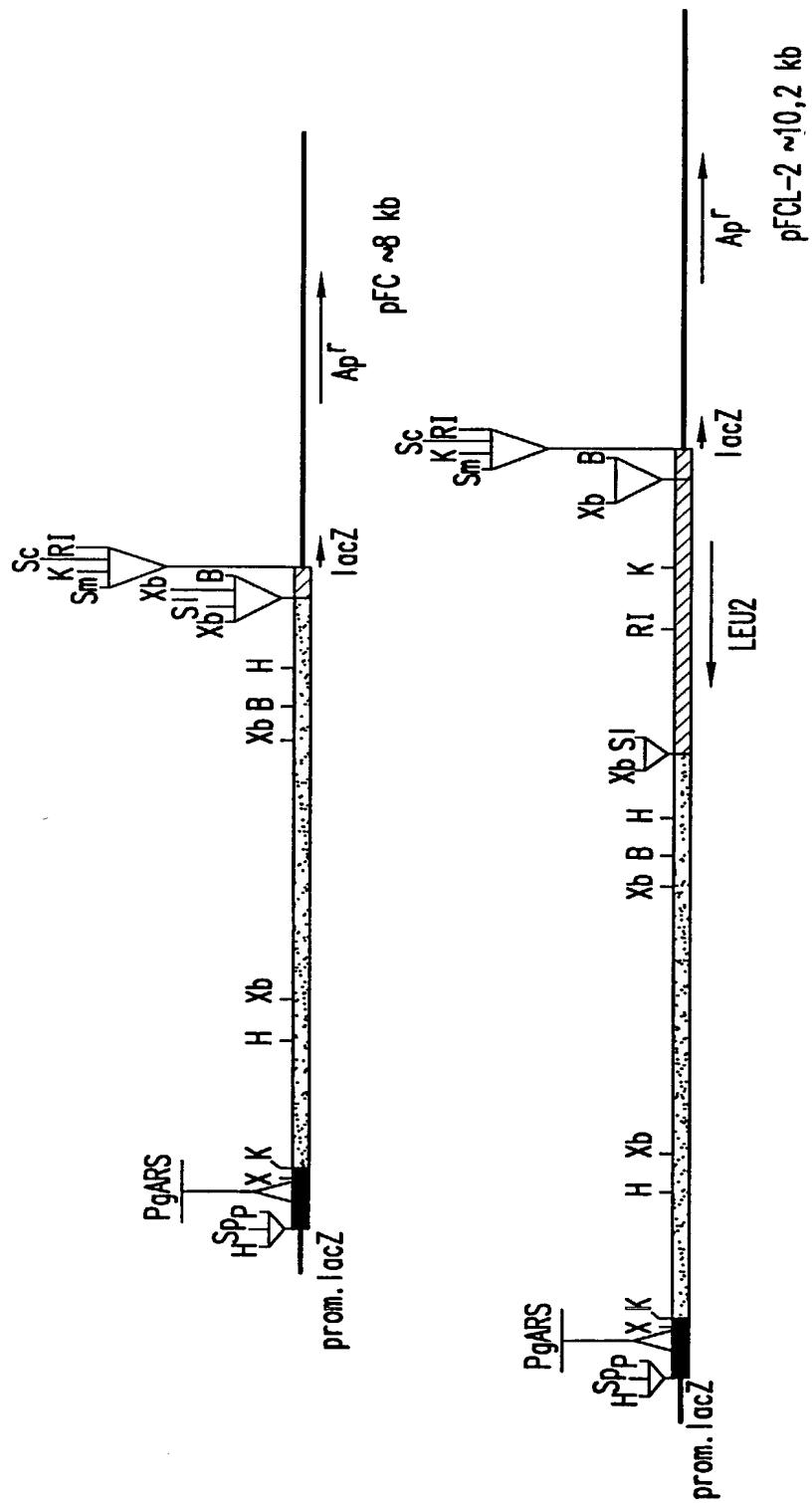


FIG. 39

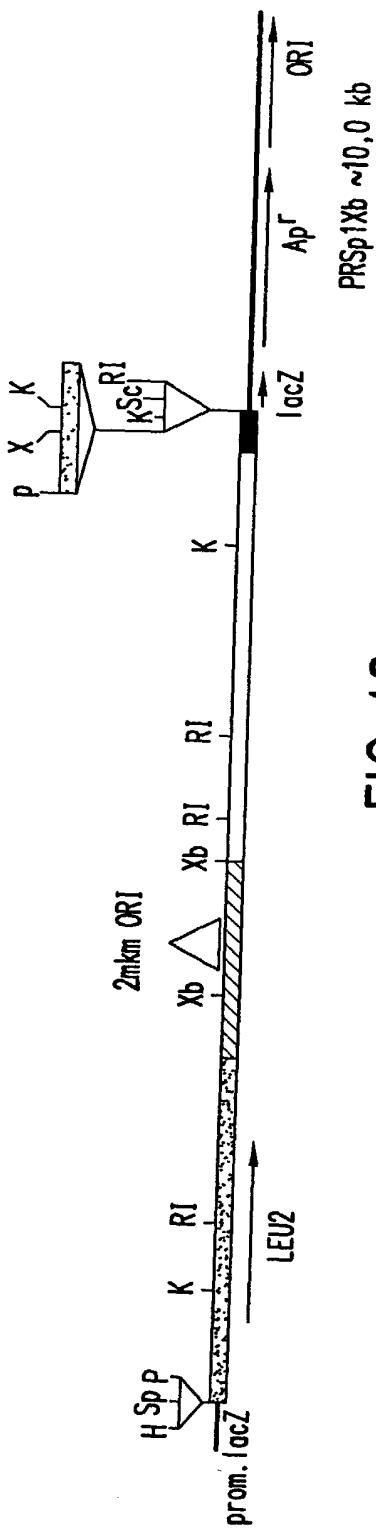


FIG. 40

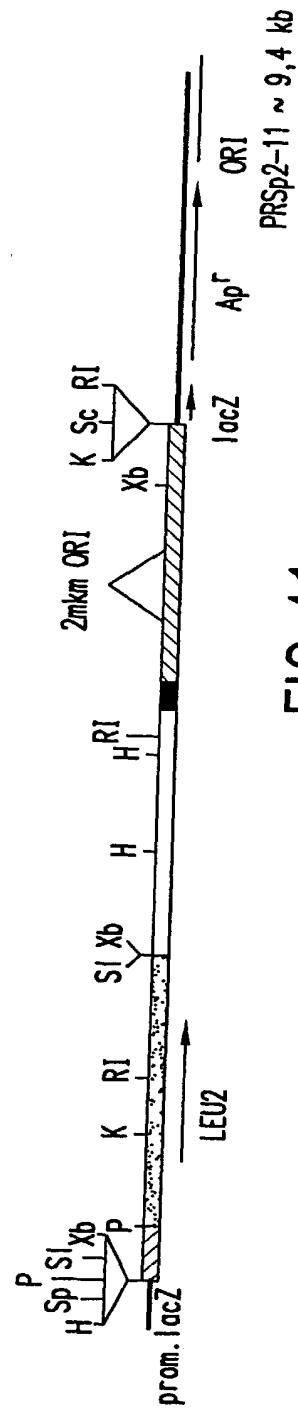


FIG. 41

Appl. No. 09/903,508; Filed: July 13, 2001
 Dkt. No. 1533.0830003/MAC/RGM; Group Art Unit: 1645
 Inventor(s): Abbas *et al.*; Tel: 202/371-2600
 Title: Transformation Systems for Flavinogenic Yeast

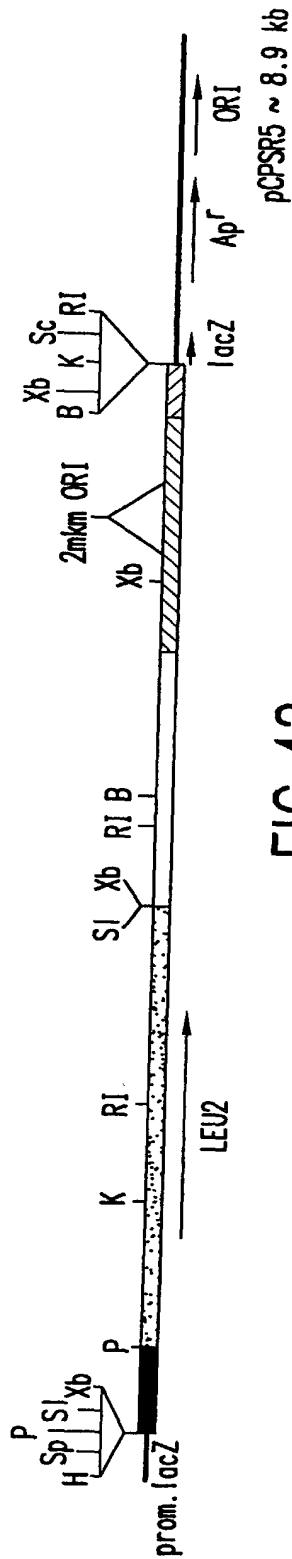


FIG. 42

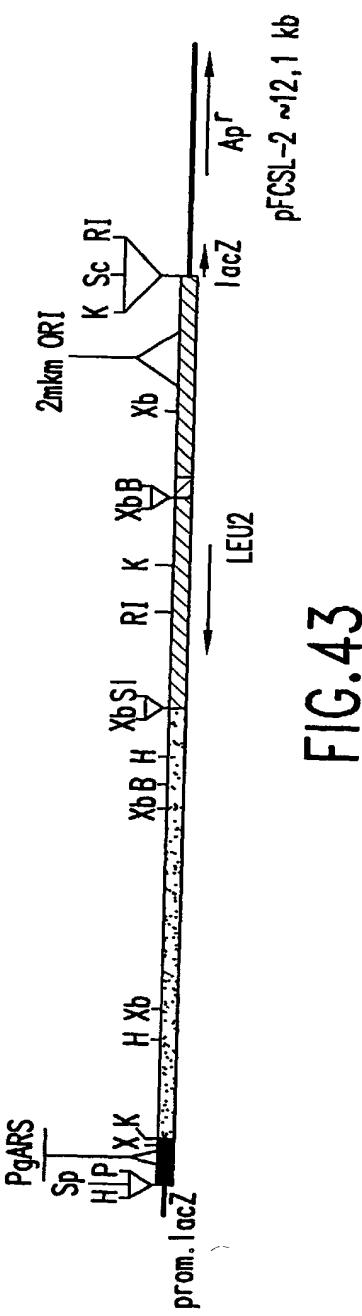


FIG. 43

